

Figure 1

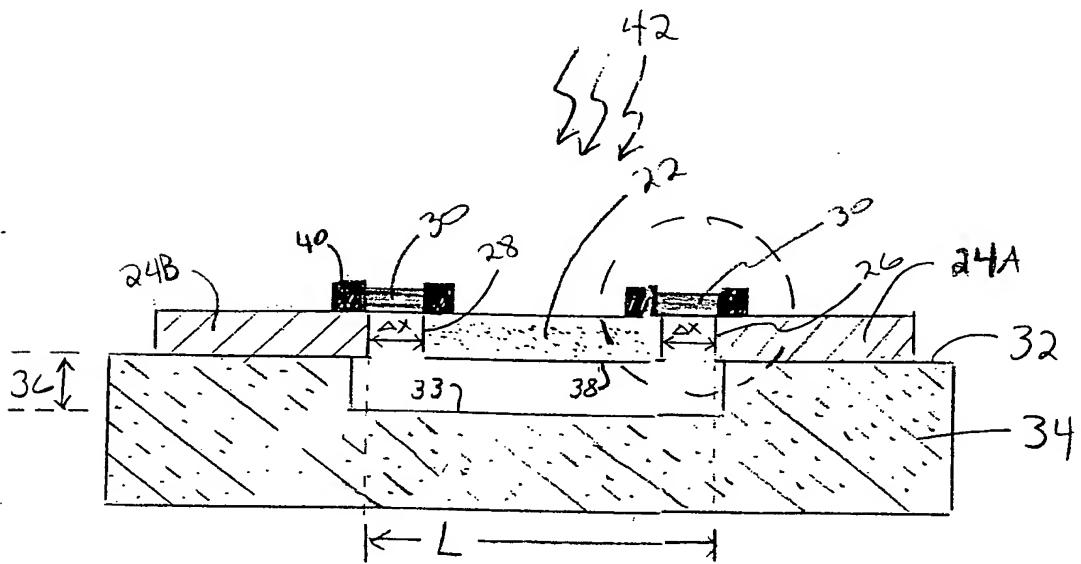


Figure 2

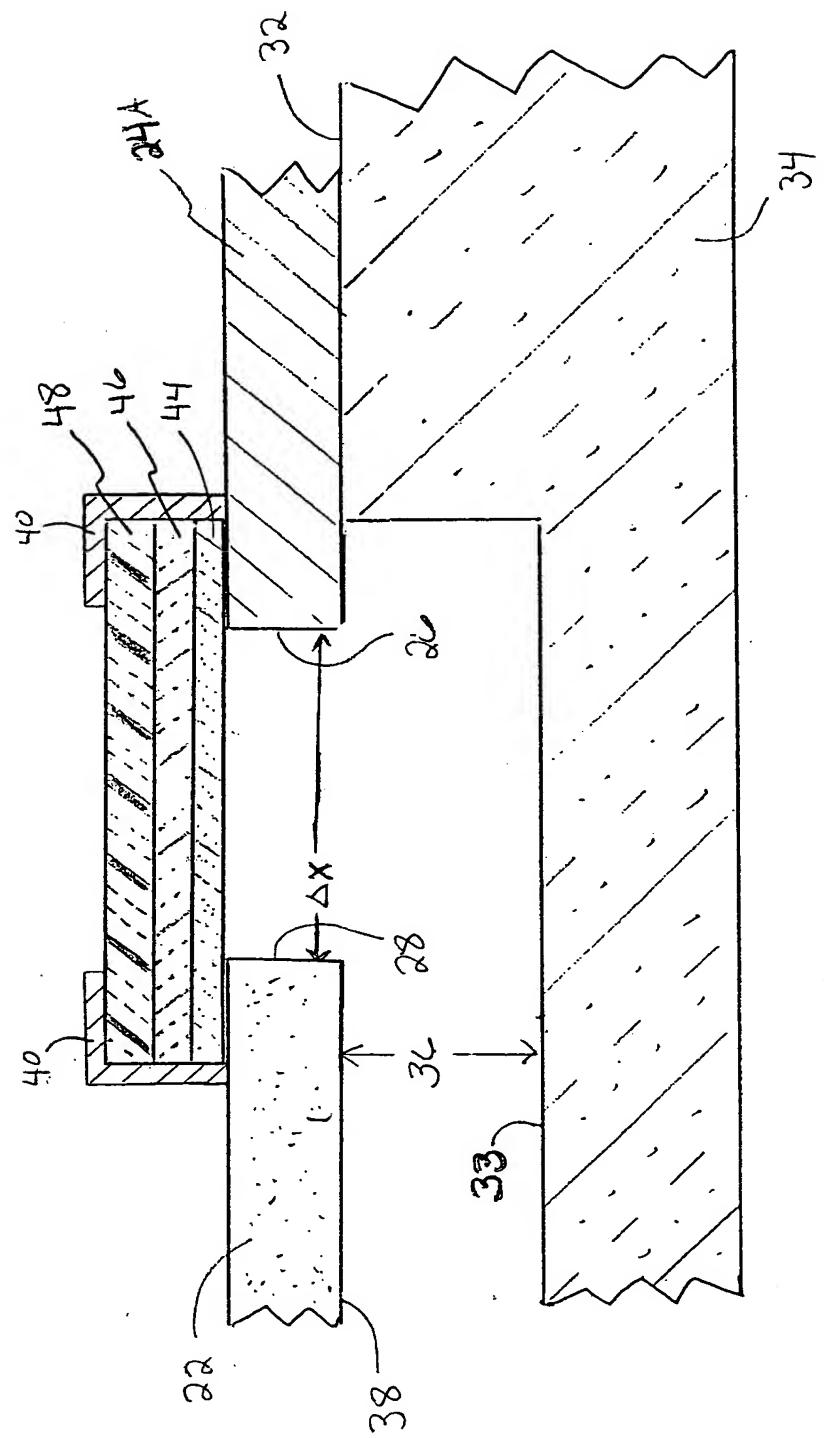


Figure 3

Conductive/ HTS

	A	B	C	D	E	F	G
Conductively coupled with Normal Metal 25 microns							
Normal Metal Cool to 77K	100	0.9	0.25	0.1	0.081	0.041	0.018
HTS antenna to pad connection 25 microns	68	0.81	0.17	0.088	0.041	0.011	0.011
HTS antenna to load connection 25 microns	77	0.61	0.17	77	77	40	40
HTS antenna to load connection 15 microns	25	25	25	15	10	5	5
HTS antenna to load connection 10 microns	95	95	95	95	95	95	95
HTS antenna to load connection 5 microns	500	500	500	500	500	500	500
NEP (pW) System	300						
NEP (pW)	210						
NEP (pW) averaged (N times)	210/(Sqr49)=30						
Temperature (K)	300						
Unit Cell width (um)	25						
Fill Factor (%Area)	85						
Bridge Si3N4 Et Thickness (A)	6000						
Leg SiNi Thickness (A)	6000						
Leg Metal Thickness (A)	2000						
Leg Width (um)	10						
Leg Length (um)	25						
TCR %/K	24						
Bolometer Resistance (ohms)	50,000						
Bolometer Resistance (ohms)	50,000	99,200	99,200	99,200	99,200	248,000	248,000

Figure 4

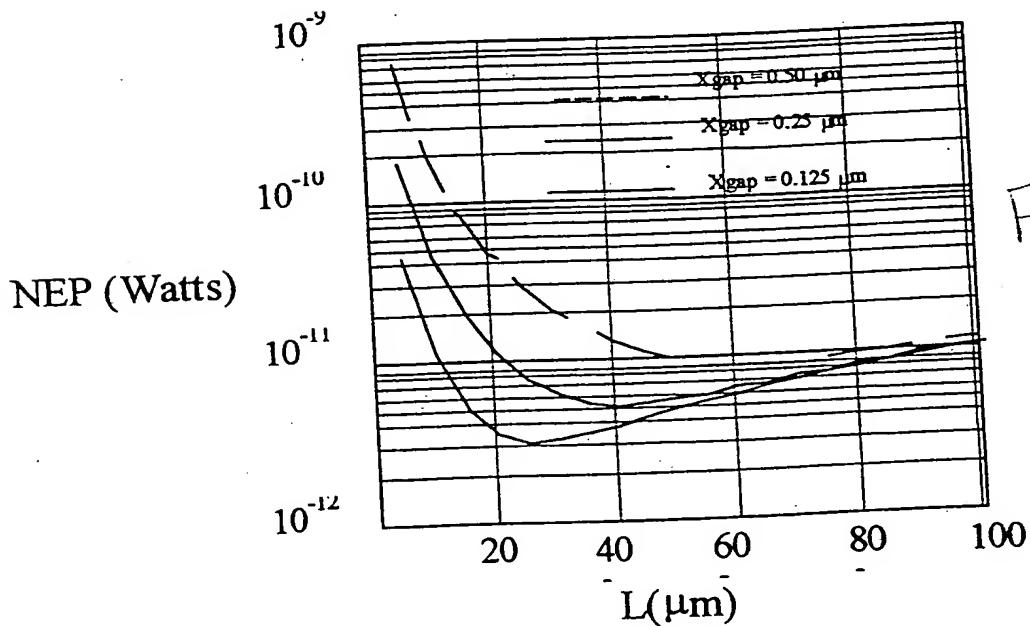


Figure 5

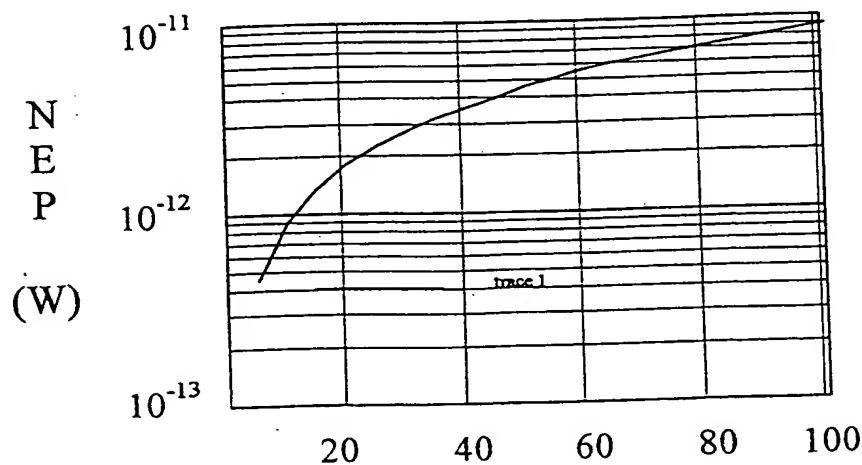


Figure 6